

**Chapter 7 System of Equations****Section 7.3: Using Graphing Technology to solve A system of linear Equations**

**Example 2:** Using graphing technology to solve a linear system with equation in different forms

Alan's school had a carnival to celebrate *Festival du Voyageur*. The school raised \$1518.75 by charging an adult \$3.75 and a student \$2.50. The total attendance was 520.

How many adults and how many students attended?

- Write a linear system to model this situation.
- Express each equation in slope-intercept form. Graph each line.
- Sketch the window of the graphing calculator
- Determine the coordinates of the point of intersection of the lines. Are these coordinates exact Or approximate?
- Verify your solution by using the data in the given problem